

US EPA RECORDS CENTER REGION 5



466412

Monthly Oversight Report 64  
44728 AES [46526 RAC]  
ACS NPL Site  
Griffith, Indiana  
April 1, 2006 – May 5, 2006



# BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/AES  
American Chemical Service, Inc. RAO (0057-ROBE-05J7)

BVSPC Project 44728  
BVSPC File C.3  
May 10, 2006

Mr. Kevin Adler  
U.S. Environmental Protection Agency  
77 W. Jackson Boulevard (SR-6J)  
Chicago, Illinois 60604-3590

Subject: Monthly Oversight Summary Report  
No. 64 for April 2006

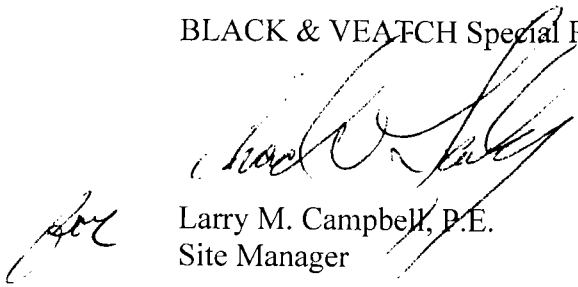
Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 64 for April 2006 for the American Chemical Service, Inc. Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email ([campbellm@bv.com](mailto:campbellm@bv.com)).

Sincerely,

BLACK & VEATCH Special Projects Corp.



Larry M. Campbell, P.E.  
Site Manager

Enclosure

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**Monthly Oversight Summary Report No. 64**  
**ACS Superfund Site**  
**TO 057, 44728.238 (AES) [WA57, 46526.238 (RAC)]**

**Reporting Period:** Month of April (April 1 through May 5, 2006)

**BVSPC O/S Dates:** April 4, 7, 11, 12 and May 5, 2006 (Mr. Campbell and Mr. Gailey)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
U.S. Environmental Protection Agency	1	Federal Regulator Agency
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
ISOTED	4	Chemox Injection Contractor
PSA Environmental	2	Drilling Contractor
Walsh & Kelly	2	Traffic Control Contractor
Ryan	1	General Contractor

## **Construction Activities**

### **Major Activities:**

- Montgomery Watson Harza continued operating the groundwater treatment plant, the in-situ soil vapor extraction systems, and the air sparge systems.
- Montgomery Watson Harza replaced the two existing 10,000 gallon granular activated carbon tanks with two new smaller tanks holding only 3,000 pounds each.
- Montgomery Watson Harza, ISOTEC, PSA Environmental, and Walsh & Kelly conducted the fourth full-scale In-Situ Chemical Oxidation Treatment injections.
- Montgomery Watson Harza pumped product from well DPE-53.
- MWH conduct an internal Health & Safety audit for their operations at the site.
- MWH held the annual inspection open house for the Fire Department of Griffith.
- Montgomery Watson Harza held site operations & maintenance status meeting on May 5.

### **Activities Performed:**

- Provided oversight of MWH's field activities on 4 days (April 4, 7, 11, and 12). Maintained contact with MWH site operations via telephone.
- Participated in 2 operation and maintenance (O&M) meetings at MWH's Chicago office (April 7 and May 5).
- Observed MWH continue to operate the groundwater treatment plant (GWTP) at a flow-demand rate of 19 gpm, treating 670,926 gallons during 588 of the 672 hours (88%) in

the April period (March 31—April 28). MWH reported that groundwater was pumped to the plant from all trench and well sources. MWH reported that the GWTP continued operating, but in recirculation mode, during the change-out of the granular activated carbon (GAC) tanks.

- MWH reported that the GWTP was shut down for 12 hours on April 2 and 3 because of severe weather and a power outage. The GWTP was also shut down from April 16 through 18 because of failure of the sand filter pump.
- Observed the removal of the existing GAC from the two existing 10,000 gallon GAC tanks into a GAC vacuum tanker truck on April 11.
- Observed, on April 12, the removal from the GWTP building of the two existing 10,000 gallon GAC tanks and the associated backwash piping manifold. Also observed the loading of these tanks and piping manifold onto a truck for transport offsite for destruction.
- Observed the installation of two new smaller GAC tanks holding only 3,000 pounds of GAC each on April 12.
- MWH reported that the water level sensor alarm went off in the bio sludge tank due to a plug in the sand filter over the weekend on April 16. The GWTP was returned to automatic operation on April 18.
- MWH reported that it measured water levels in all monitoring locations on April 18 to 20 as part of the monthly monitoring plan.
- MWH reported that it replaced a pump at EW-11 on the barrier wall extraction system on April 19. This activity required performance of a permitted confined space entry, which was conducted in accordance with proper safety procedures. No incidents occurred.
- Observed MWH continue to operate the Onsite Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizer units 1 and 2 (thermox 1 and 2).
- MWH reported that it conducted the monthly compliance sampling of thermox 1 and 2 on April 13.
- MWH reported that thermox 1 operated for 474 of the 672 hours (71%) in the April period, processing 1,000 cfm of vapors from the ONCA SBPA ISVE system, collecting vapors from 29 ISVE wells in early April when air was injected through Group 2 wells (of the total 46). On April 21, when air injection was switched to group 3 wells, vapors were collected from 31 wells.
- MWH reported that thermox 1 was shut down on April 2 and 3 due to severe storms and for scheduled maintenance on April 18 to 20.
- MWH reported that it was having difficulty sustaining the target chamber temperature in thermox 1. MWH reported that it is investigation the problem.
- MWH reported that thermox 2 operated for 561 of the 672 hours (83%) in the April period, processing 2,000 cfm of vapors collected from all 42 OFCA ISVE wells and aeration tank T-102.
- MWH reported that it serviced thermox 2 on April 3 and observed approximately 20 holes on the combustion chamber shell. MWH reported that it patched these holes and returned thermox 2 to operation.

- MWH reported that it pumped 8 gallons of free product from ISVE well SVE-53 in the SBPA on April 25. Product was collected in a drum at the surface and transported to the GWTP and transferred to oil holding tank T-6.
- MWH reported that in early April, air was being injected into the SBPA through Group 2 of five wells (SVE-49, -51, -65, -71, and -82), each flowing at about 20 cfm. MWH reported that air injection was switched to Group 3 wells (SVE-44, -59, -77, -80, and -84) on April 21. MWH reported that air will be injected using this Group 3 set of wells through late May.
- MWH reported that ISOTEC, PSA Environmental, and Walsh & Kelly mobilized to the site on April 3 to conduct the fourth full-scale in-situ chemical oxidation (ISCO) injection.
- Observed MWH conduct a kickoff health and safety meeting with the ISCO contractors on April 4. Observed ISOTEC and PSA inject modified Fenton's reagent, catalyst, and water in the target area of the South Area plume near the intersection of Colfax Street and Reder Road. MWH reported injecting chemicals into 160 locations beneath and on both shoulders of Colfax Street during the period April 4 through 10. PSA demobilized from the site on April 10, and ISOTEC, on April 11.
- MWH reported that it has confirmed with Mr. Howard Anderson's wife (local resident who had filed a noise complaint) that ME-103 noise-suppression has been completed (by activating the new ME-102).
- MWH reported that its corporate health and safety officer conducted an internal Health & Safety audit of the GWTP and the onsite and offsite ISVE system operations on April 19. The only safety audit concern was the missing protective dust caps on the eye wash station.
- MWH reported that it hosted the annual inspection open house for the Fire Department of Griffith on April 25. Thirty three firefighters participated with two fire trucks, two rescue units, and two additional support vehicles. MWH reviewed hazards at the site, confined spaces, and hazardous and flammable materials on site.
- MWH reported that it plans to replace the main 30 HP piston air compressor at the GWTP with a 40 HP rotary screw air compressor on May 15.
- Completed monthly oversight report (with field notes and photographs) for the March reporting period. Submitted Monthly Oversight Summary Report No. 64 to EPA on April 14.
- Site Manager provided periodic reports of field activities to the EPA TOPO via telephone and E-mail.
- MWH conducted the monthly O&M meeting at its Chicago office on May 5. BVSPC attended this meeting.

**Topics of Concern:** None

**Concern Resolution:** None

**Upcoming Activities:**

- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE and air sparge systems.

- MWH to continue operating Group 3 air injection wells in the SBPA.
- MWH to monitor odors in the ACS break room.
- MWH to continue pumping product from selected ONCA SBPA dual phase extraction wells.
- MWH and PSA Environmental will conduct the post-application ISCO soil and groundwater sampling on May 9 through 12.
- MWH will remove the existing air compressor and install a replacement air compressor on May 15.
- MWH will continue construction coordination meetings at the site when field activities warrant such meetings.
- MWH will continue monthly O&M meetings to report on operation of active treatment systems.

Signature: Chad Gailey

Date: May 12, 2006

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Received  
05/09/06  
CHAD GAILEY

**SITE STATUS MEETING MINUTES  
FOR MAY 5, 2006 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** Friday, May 5, 2006

**MEETING TIME:** 10:00 a.m.

**MEETING LOCATION:** MWH Chicago Office

**ATTENDEES:** Chad Gailey – Black & Veatch  
Prabhakar Kasarabada – IDEM (via phone)  
Peter Vagt – MWH  
Todd Lewis – MWH  
Chris Daly – MWH  
Lee Orosz – MWH (via phone)  
David Powers – MWH  
Justin Finger – MWH

**TOPICS:**

**SITE STATUS**

General Site Health and Safety

There have been no health and safety incidents since the last meeting held on April 7<sup>th</sup>. On April 11<sup>th</sup>, MWH began the process of replacing the carbon vessels in the Groundwater Treatment Plant (GWTP). A large vacuum truck was used to remove the carbon from the old vessels. On April 12<sup>th</sup>, both of the old 10,000 gallon vessels were removed from the GWTP using a crane. The new vessels were then installed. During these activities, appropriate health and safety procedures were followed and no incidents occurred.

On April 19<sup>th</sup>, MWH performed a confined space entry in barrier wall system extraction well EW-11 to replace the pump. Appropriate safety procedures were followed and no incidents occurred.

Also on April 19<sup>th</sup>, MWH's corporate health and safety officer conducted an audit the ACS site. The audit produced one comment regarding missing covers on the eye wash stations. MWH is in the processes of correcting this issue.

On April 25<sup>th</sup>, MWH conducted an informational session for members of the Griffith Volunteer Fire Department and allowed the Department to perform its annual inspection of the facility. Thirty-three members of the Volunteer Fire Department were present for the event. The session included a review of the hazards present at the site, including the location of confined spaces and the nature of flammable materials stored at the site.

#### Groundwater Treatment Plant (GWTP) Status

The GWTP operated 88 percent of the time from March 31 to April 28 (588 out of 672 hours). On the evening of April 2<sup>nd</sup>, the GWTP lost power. The plant was down approximately 12 hours until it resumed regular operation on Monday, April 3<sup>rd</sup>.

On April 12<sup>th</sup>, two new granular activated carbon (GAC) vessels were installed. The two existing vessels and GAC contained in them were removed from the GWTP on April 11<sup>th</sup>. During the change-out process, water was re-circulated throughout the plant until the pH of the new carbon was lowered to an appropriate level to treat the water. On April 15<sup>th</sup>, the GWTP resumed regular operations.

On April 16<sup>th</sup>, the pump associated with the sand filter malfunctioned causing the filter to plug. As a result, water backed up into the biotank, triggering an alarm and causing the plant to shut down. The problem was remedied and the GWTP resumed operation on April 18<sup>th</sup>.

A new air compressor to replace the existing main GWTP air compressor is scheduled to be installed in mid-May.

#### Off-Site Area/SBPA ISVE Systems

The Off-Site Area ISVE System was operational for 83 percent of the time from March 31 to April 28, 2006 (561 out of 672 hours). All 42 ISVE wells and 3 air sparge wells are active.

The SBPA ISVE system was operational for 71 percent of the time from March 31 to April 28, 2006 (474 out of 672 hours). Air Injection Well Group 2 (SVE-49, SVE-51, SVE-65, SVE-71, and SVE-82) and associated ISVE wells were active until April 21<sup>st</sup>. On April 21<sup>st</sup>, operation was switched to Well Group 3 (SVE-44, SVE-59, SVE-77, SVE-80, and SVE-84).

The storms and subsequent power outage on April 2<sup>nd</sup> caused certain components on Thermal Oxidizer 1 (ThermOx 1) to malfunction. The appropriate repairs were made, and the system returned to service on April 3<sup>rd</sup>. It has been difficult to sustain the target chamber temperature in ThermOx 1. MWH is currently investigating the cause of this problem.

ThermOx 2 was serviced on Monday, April 3<sup>rd</sup>. While it was being serviced, approximately 20 holes were observed on the combustion chamber shell. All the holes were patched and ThermOx 2 resumed operation.

#### Interaction with ACS Facility and Community

Lee Orosz had a conversation with Tom Froman of ACS to discuss any issues that might exist with MWH's on-site activities. Tom stated that no problems were noted regarding the active treatment systems.

### Current Issues

The fourth round of chemical oxidation injection began on April 3<sup>rd</sup> and was completed on April 11<sup>th</sup>. MWH contracted PSA Environmental and Isotec to perform the work. Walsh & Kelly conducted traffic control. The total number of injection points at completion was 160.

Post-application sampling following the fourth round of chemical-oxidation injections is scheduled to take place May 9-12, 2006. MWH has subcontracted PSA Environmental to perform drilling activities. MWH will collect 12 soil samples and 12 water samples. Seven of the water samples will be collected through the drill rods of the direct push rig. The other five samples will be collected from temporary monitoring wells. The results from the sampling will be summarized in a forthcoming report.

### LOOK AHEAD

#### Field Events

- Chemical Oxidation Post-Application Sampling – May 9-12, 2006
- ISVE System Monitoring – May 24, 2006 (tentative)

#### Reports

- Lower Aquifer Investigation Report – May 2006
- Active Treatment Systems Quarterly Report, 1<sup>st</sup> Quarter 2006 – May 2006
- Chemical Oxidation Fourth Full-Scale Application Report – June 2006
- March 2006 Groundwater Monitoring Report – June 2006

#### Health & Safety Look Ahead

- Proper forklift safety procedures should be followed during replacement of the compressor in the GWTP.
- Appropriate PPE should be worn and appropriate procedures should be followed while performing chemical oxidation post-application sampling. Special attention should be paid to traffic safety procedures.

#### Future Meetings

Monthly Site Status Meeting – Friday, June 2, 2006, 10 a.m. at MWH's Chicago Office.

JEF/CAD/PJV

J:\209\0602 ACS PM\Meetings\Meeting Minutes 2006\ACS Meeting Minutes 5-5-06.doc

(122)

Tue 4 Apr 06  
0729 Arrive cen site  
Clear, calm, Cool 38°F

### Personnel cen site

Justin Fingar	MWH
Lee Cross	"
David Powers	"
Mike Temple	ISOtec
John Seithel	"
Greg Penny packer	"
Gary Schreiber	"
Larry Campbell	BUSPC
Josh Hansen	Walsh & Kelly
Cheryl Doms	Walsh & Kelly
Kenny Dore	PSA Envtl.
Robert Turner	"
Terry Frost	Ryan
Larry Meyer	Central
Tim Kirkland	Mutzon

0735 MWH Conducted Chemex  
Safety Meeting w/ MWH  
ISOtec, PSA Envtl, Walsh & Kelly  
& BUSPC Personnel

0800 Mtg over Personnel  
mobilized to work site  
Jim Campbell

(123)

0815 Lee Cross reported they  
experienced many power  
outages last Friday and  
also Sunday evening. At  
each outage, had to restart plant.  
Sunday evening - plant & ISVE  
systems down till Monday.  
On Monday MWH restarted CWT  
& ISVE systems. However, Thorax  
I-2 would not operate. Ryan out  
today to troubleshoot. May be  
problem w/ burner control unit

0839 Photo 84-09 looking S at  
work zone signs set up before  
lane closure ahead

0846 Photo 84-10 looking S at ISOtec  
Setting up injection tanks, pumps  
& drums

0847 Photo 84-11 looking SW at  
ISOtec moving drums of hydrogen peroxide  
to work site

0850 Photo 84-12 looking S at  
Walsh & Kelly placing cones down  
center of Caltex to direct  
traffic

Jim Campbell

(124)

- 0855 Photo 84-12<sup>13<sup>th</sup> am</sup> looking N at  
Isotec adding Catalyst powder  
to tank & water to mix.  
0902 Photo 84-13<sup>14<sup>th</sup> am</sup> looking W at  
Isotec opening pumps to  
transfer 50% hydrogen peroxide  
to tanks & water to make 17%  
mixture of hydrogen peroxide.  
Note Isotec staff wearing hard  
hat w/ face (splash) shield  
0912 Photo 84-14<sup>15<sup>th</sup> am</sup> looking S at  
Mutt marking injection locations  
in roadway  
0915 Photo 84-15<sup>16<sup>th</sup> am</sup> looking S at  
PSA drilling first hole thru  
asphalt. Note flagger in background  
1037 Photo 84-16<sup>17<sup>th</sup> am</sup> looking south  
at 4 injection points being  
pumped w/ Chem. Cy.  
1045 Photo 84-17<sup>18<sup>th</sup> am</sup> looking E at  
Isotec transferring hydrogen  
peroxide from tanker to  
drums  
1230 Lunch  
1330 Rtn from lunch  
Jim Campbell

(125)

- 1415 Photo 84-18<sup>19<sup>th</sup> am</sup> looking down at  
Sound backfilling hole thru asphalt  
1417 Photo 84-19<sup>20<sup>th</sup> am</sup> looking N at  
PSA patching hole in asphalt  
roadway  
1420 Disc in Lee Crosby. Thermox 1  
has been restarted & is coming  
up to Temp. Will restart  
ISGE system this evening  
1529 Photo 84-20<sup>21<sup>st</sup> am</sup> looking E at  
W&K picking up traffic cones  
Work in roadway is completed  
for day. Now working in E.  
Shoulder of Colfax St.  
1538 Photo 84-21<sup>22<sup>nd</sup> am</sup> looking N at  
Traffic cones placed while working  
on Shoulder of Colfax Ave.  
1550 Photo 84-22<sup>23<sup>rd</sup> am</sup> looking N at PSA  
installing final injection rods for today.  
Will have injected 22 points today.  
1615 Left Site for day

Jim Campbell

(125)

(126)

Fri 7 Apr 06

0810 Arrive onsite - overcast  
calm, warm 50°F  
rain earlier & forecast for AM.

### Personnel Onsite

Todd Lewis	MWH
Lee Oresz	"
Chris Daly	"
Justin Finger	"
David Powers	"
Mike Temple	ISOtec
John Scalbur	"
<del>Greg</del> Penny packer	"
Gary Schreiber	"
Kenny Doane	PSA
Robert Troman	"
Cheryl Doms	Walsh & Kelly
Joshua Hansen	" "
Larry Campbell	BUSPL
Kevin Fulvey	Microbac

*Larry Campbell*

(127) (128)

Fri

(let MWH personnel)  
0850 Visit site of Lower Aquifer  
wells at N Property line to  
check out location of elect & water  
lines for new pumps in LA well

0900 Visit Chemex injection s.c. in  
Colfax Ave

0910 Photo 84-25 <sup>24 June</sup> looking S showing  
Chemex injection in 4 locations on shoulder  
& drilling holes in asphalt of Colfax Ave

0914 Photo 84-26 <sup>27 June</sup> looking N at Mark  
managing locations of Chemex injection in  
Colfax Ave 26 June

0915 Photo 84-27 looking SW at ISOtec  
Chemex mixing & pumping station

1000 Contst mty - see pg ~~28~~ <sup>29</sup> ~~30~~ <sup>31</sup>

1035 Mty over

1050 inspect GTOJP. Observer now  
bleom installed at ME 102  
inside No. 8 house

1122 Photo 84-28 <sup>27 June</sup> looking E at  
PSA backfilling injection point  
w/ sand. 28 June

1127 Photo 84-29 looking E at  
ISOtec connecting Chemex  
man. field to injection rod.

*Jim Campbell*

(128)

1200 Break for lunch  
1300 Return from lunch  
1310 Peter continued injecting  
on West lane 1  
Alf at street  
Completed injecting in  
W lane 1 Alf at st, removed  
injection rods & opened  
W lane to traffic  
Continued injecting at location  
on the W shoulder  
Must state they would  
complete 28 injection points today  
Left site for lunch

~~W. Campbell~~

~~Jim Campbell~~

(129)

Tues 11 April  
0840 Anne onsite - partly  
cloudy calm cool 63°F

Personnel on site  
Les Oresg  
Donnie Sauerweil  
Tim Kirkman  
Justin Fingers  
Larry Campbell  
Mull  
Weston  
Burre

0845 Disc in Justin Fingers. Isotex  
Completed dinner injections yesterday  
& packed all their equipment for  
dormitory. They left this morning  
for home. Found truck was  
removed from area at 8:30 AM today  
Justin reported isotex injected 25  
points Saturday, 4/8, 17 points Sunday  
4/9, and 22 points Monday 4/10  
0850 Photo 85-01 looking N of sandy  
locations 1 injection points on W shoulder  
2 Alf at st  
0851 Photo 85-02 looking W into  
area at chimney staying & mixing  
area

(130)

- 0902 Returned to GLTP where Weaverburn Trucking was removing GAC from 10,000 gal tank
- 0902 Photo 85-03 looking S into GLTP showing GAC Tanker truck & hoses. Note plastic sheeting to protect GLTP walls
- 0903 Photo 85-04 looking into GAC tank ME 34 (S. tank) showing some remaining carbon in bottom after most had been removed
- 0905 Photo 85-05 looking inside GAC Tank ME 34 showing corrosion on wall of tank
- 0917 Photo 85-06 looking inside GAC Tank ME-34 after almost all GAC had been removed
- 0930 Photo 85-07 looking S at Lee using high pressure washers to remove caked (solid) GAC from walls of Tank ME 34
- 0936 Photo 85-08 looking up at Weaverburn Tech closing hatches on truck. Note he is tired & w/ full protection.

Jim Campbell

131

- 0948 Photos 85-09 & 85-10 looking down inside GAC Tank ME 34 after all GAC removed
- 0951 Photo 85-11 looking E at Weaverburn Tech connecting hoses to ME 33
- 1025 Photo 85-12 looking S at removing carbon from ME 33
- 1110 Photo 85-13 looking down into GAC Tank ME 33 showing water above GAC at  $\approx 3/4$  full
- 1111 Photo 85-14 looking at seal photo for top of GAC ME 33. Note corrosion & attached carbon
- 1158 Photo 85-15 looking down at carbon crushed hatch for GAC Tank 34
- 1200 Break for Lunch
- 1230 Lunch over
- 1248 Photo 85-16 looking into GAC Tank ME 33 after most of the GAC has been
- 1327 Photo 85-17 looking up at Lee adding water to ME 33 to dislodge remaining GAC

Jim Campbell

(132)

1400 MWH reinstalled hatches on side & top of GAC Tank ME33 in order to pressurize tank such that remaining GAC would be evacuated when exit valve was opened. MWH pressurized tank 2-3 times until crushed GAC was evacuated. Then used high pressure washer to dislodge material from sides of tank.

1500 Continued using high pressure washer to remove GAC. Tank is nearly empty of residual GAC.

1505 Left site for day

*Jim Campbell*

(133)

Wed 12 Apr 06

0815 Arrive onsite - clear  
Calm warm 64°F

### Personnel on site

Lee Orszag	MWH
Terry Fritze	Ryan
Tim Kirkland	Austgen
Dennis Tobiasch	Withams
Larry Campbell	Buspc

0830 Lee described the tailgate that mtg. w/ Ryan + Withams personnel regarding crane lift capacity + crane operator to remove GAC tanks

0837 Photo 85-18 looking NW at Valving arrangement to backwash GAC tanks. after it was removed

0840 Photo 85-19 looking SE at GAC tanks to be removed & prior location of valving unit

0842 Photo 85-20 looking inside GAC Tank ME33 after all GAC removed

0844 Photo 85-21 looking S at crane being connected to lifting cable

*Jim Campbell*

(134)

- 0847 Photo 85-22 looking SE  
at Tank ME 33 lifted off the floor
- 0852 Photo 85-23 looking SE  
at rear truck crane tire  
on ground
- 0903 Photo 85-24 looking NW at  
tank reconnected in chain  
(rather than cable sling) because  
of height limitations in bldg.
- 0923 Photo 85-25 looking N at  
crane backs out of GWT
- \* 0930 Reconnected crane inside  
GWT to remove Tank ME 34
- 1013 Photo 86-01 looking SE  
at ME 34 being moved out  
of its prior place. No  
short back up because of  
overhead heater
- 1015 Photo 86-02 looking N  
as Tank ME 34 being moved  
out of GWT
- 1016 Photo 86-03 looking N showing  
minimal beam clearance  
as ME 34 moved outside

Jim Campbell

(135)

- \* 0925 Photo 85-26 looking NW at  
ME 33 being tipped onto its side
- \* 0932 Photo 85-27 looking SW at  
ME 33 on its side
- 1029 Photo 86-04 looking S at ME 33  
being placed on heavy track
- 1044 Photo 86-05 looking W at ME 34  
being tipped onto its side
- 1058 Photo 86-06 looking W at ME 34  
being loaded onto low boy
- 1104 Photo 86-07 looking NW at long-  
reach pickup of piping unit
- 1106 Photo 86-08 looking W at placement  
of piping unit on track
- 1108 Photo 86-09 looking N at new  
3000# GAC tanks on delivery track
- 1117 Photo 86-10 looking NE at GAC  
removing GAC tank from delivery  
track using fork lift
- 1122 Photo 86-11 looking S at truck  
~~loaded with~~ loaded with old GAC tanks
- 1127 Photo 86-12 looking NW at new  
GAC tank being moved into GWT
- 1127 Photo 86-13 looking N at new  
GAC tank being moved into GWT

Jim Campbell

(136)

1134 Photo 86-14 looking S at  
Second GAC Tank being moved  
into position.

1200 Break for Lunch

1240 Lunch over

1244 Photo 86-15 looking S at  
new GAC tanks in place

1245 Photo 86-16 looking SW at  
Lee measuring for new hoses  
to connect new GAC Tanks

1300 Left site for day

Tom Campbell

(137)

Chad R. Saly

05/02/00

9:50 Arrive @ mail OFFICE Depts. to  
Chicago @ 175 W Jackson Street  
for the monthly Construction Meeting.  
Weather, Temp in 50's mostly clear.

10:05 meeting started, Present are the  
Following People:

Chris Daly	mail
Jason Finger	mail
Dave Powers	mail
Pete Vagt	mail
Topo Lewis	mail
Lee Crose	mail By Phone
PRASATH	Idem By Phone

Site Status

Health & SAFETY; Lee Crose Speaking  
April 11 - Carbon Change Out w/ 1  
Vacuum Truck; Harry Campbell was  
Present from B.C.V.

12 - Remove the 2 - 10,000 gal  
Carbon Tank (GAC) w/ Crane  
AND INSTALLED SAME DAY  
without a hitch w/ 2 -  
6,000 gal Tanks.

19 - Confine Space Permit to  
Entry, Extraction well

Chad R. Saly

(138)

Charles Saly *estab*

Health to Surgery (Continued)

April 11 - The Confine Spine Surgery was a success.

11<sup>th</sup> March Conduct an internal Audit. The only Concern found was the missing Eye wash.  
Dust Cups. U

25 March Conducted their Annual Open house for the Fire Dept. (City of Guelph) 33 fire fighters were present, 2 Fire Trucks, 2 Rescue unit, and 2 additional Support Vehicles.

Gas T/P Status

David Power Speaking.

Ed ~~April~~ <sup>April</sup> 12 Lost Power on May 1 and May 2 Due to Severe Thunder Storms. Regain Power April 2.

April 11-12 Gas T/P was put into continuous loop to adjust the pH During New Carbon Tank installation.

April 15 Return to Discharging Liquids (Final).

April 16 Plant Shut Down

Charles Saly

(139)

Charles Saly *estab*

Gas T/P Status (Continued)

April 16, Plant Shut Down Due to Snowfall, becoming Pugged Settling off the High water Alarm in the Bio Tank.

April 18 Gas T/P Back online, Lee was able to detect this Faulty putting the Gas T/P back online Monday.

Month April Treatment Plant Operated

88 % of Time Treating 670K gals.

April 18 2<sup>nd</sup> The Gas T/P was put into continuous loop to allow the wells to Equilibrate for monthly Groundwater elevations. During this time Preventive Maintenance was performed on Chem Ox I and II Thermal Oxidizer II had 20 holes Punctured in its outer Shell, Due to Peaks of high VOC's, Both Oxidizer Unit were put Back on line April 21<sup>st</sup>.

Thermal Oxidizer I operated 474 out of 672 hours (71%). It operated 561 out of 876 (83%).

Charles Saly

(170)

Charlie Saly *astobla*

SVE April 29 / Group S was put  
online which is 44, 59, 77  
80 and 84.

8 gals of Product was removed.

ACS / Tom of ACS w/ Mewt

- observed No odors or

excessive noise, this is

an old issue that has and  
is currently being monitored.

IN the onSite AREA with the  
Extraction wells and Blowers.

### Community Relations

Howard Anderson's Family, was  
happy with the solution to

Blower Noise, (Pete Vogt) spoke  
w/ Mr Howard Anderson's wife.

Pete Vogt informed us Mr. Anderson  
Past away.

### Up Coming Events

Chem Cr Sampling May 9-12

All work is to be performed in the  
night-od-way, activities have been  
coordinated along w/ ACS.

12 Soil Sample locations

2 Grab Samples.

Charlie Saly

(171)

Charlie Saly *astobla*

### Up Coming Events (Continued)

5 Sample from Existing Chem Cr  
wells.

NPSCO Power Company will be  
on site to Replace a Leaky  
Transformer.

### REPORTS

System Monitoring May 24

Lower Aquifer END May

Q Report END MAY

Chemical Oxidation JUNE

### Past H/S Concerns / Work Ahead

- Sampling Safety, PPE

- Traffic

- De energize Plant During  
Transformer Exchange.

- NEXT Meeting June 2, 2006

@ MW's Office.

CS-105-106  
Charlie Saly



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #9  
Date: 4-04-06 Time: 0839  
Photographer: Larry Campbell  
Description: Photo facing south showing work zone  
signs set up before lane is closed ahead.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #10  
Date: 4-04-06 Time: 0846  
Photographer: Larry Campbell  
Description: Photo facing south showing ISOTEC  
setting up injection tanks, pumps and  
chemical drums on east side of Colfax  
Ave.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #11  
 Date: 4-04-06 Time: 0847  
 Photographer: Larry Campbell  
 Description: Photo facing southwest showing  
 ISOTEC moving drums of hydrogen  
 peroxide from the large tanker truck to  
 the work area.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #12  
 Date: 4-04-06 Time: 0850  
 Photographer: Larry Campbell  
 Description: Photo facing south showing Walsh &  
 Kelly placing traffic cones down center  
 of Colfax Ave. to divert traffic.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #13  
Date: 4-04-06 Time: 0855  
Photographer: Larry Campbell

Description: Photo facing north showing ISOTEC adding catalyst powder to tank of water to mix into solution.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #14  
Date: 4-04-06 Time: 0902  
Photographer: Larry Campbell

Description: Photo facing west showing ISOTEC operating pumps to transfer hydrogen peroxide to tanks. Note staff wearing splash protection head gear.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #15  
 Date: 4-04-06 Time: 0912  
 Photographer: Larry Campbell  
 Description: Photo facing south showing MWH marking injection locations in roadway of Colfax Ave.

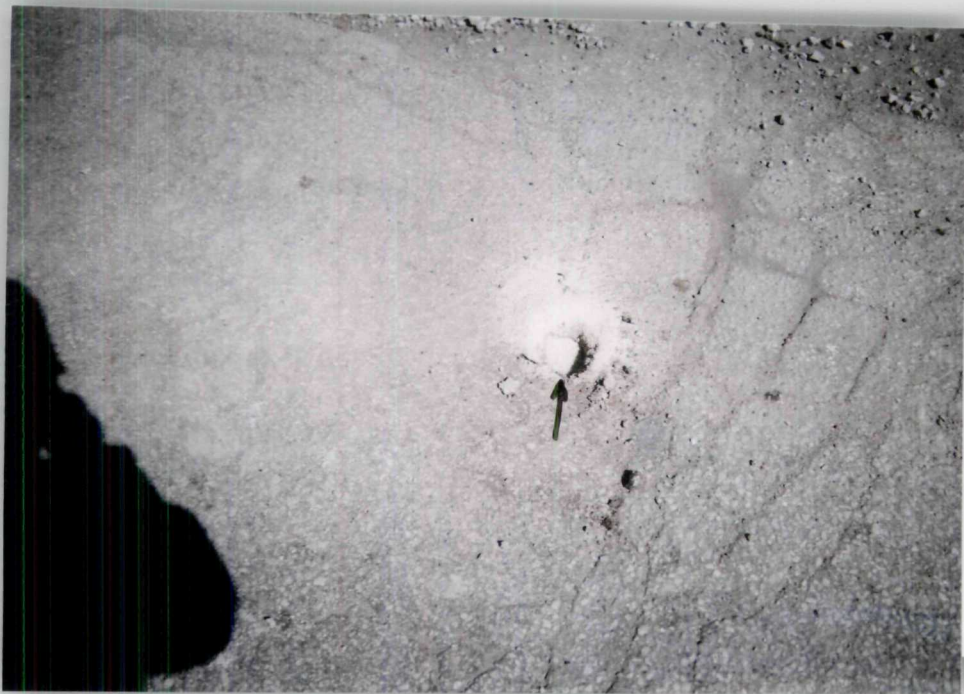


Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #16  
 Date: 4-04-06 Time: 0915  
 Photographer: Larry Campbell  
 Description: Photo facing south showing PSA Environmental drilling first hole through asphalt. Note flagger in background.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #17  
Date: 4-04-06 Time: 1037  
Photographer: Larry Campbell  
Description: Photo facing south showing four injection points being injected with chemox solution. Note other injection points are installed to expedite operation.

Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #18  
Date: 4-04-06 Time: 1045  
Photographer: Larry Campbell  
Description: Photo facing east showing ISOTEC transferring hydrogen peroxide from tanker to drums.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #19  
 Date: 4-04-06 Time: 1415  
 Photographer: Larry Campbell  
 Description: Photo facing down showing sand used to  
 backfill the hole drilled through the  
 asphalt roadway.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #20  
 Date: 4-04-06 Time: 1417  
 Photographer: Larry Campbell  
 Description: Photo facing north showing PSA  
 patching hole in asphalt roadway.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #21  
Date: 4-04-06 Time: 1529  
Photographer: Larry Campbell  
Description: Photo facing east showing Walks and Kelly picking up traffic cones. Work in roadway is completed for the day. Now working in east shoulder of Colfax Ave.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #22  
Date: 4-04-06 Time: 1538  
Photographer: Larry Campbell  
Description: Photo facing north showing traffic cones placed while working on shoulder on Colfax Avenue.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #23  
 Date: 4-04-06 Time: 1550  
 Photographer: Larry Campbell  
 Description: Photo facing north showing PSA installing final injection rods for today. Will have injected 22 points today when this point completed.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #24  
 Date: 4-07-06 Time: 0910  
 Photographer: Larry Campbell  
 Description: Photo facing south showing chemox injection at 4 locations on shoulder and drilling through asphalt in Colfax Ave.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #25  
Date: 4-07-06 Time: 0914  
Photographer: Larry Campbell  
Description: Photo facing north showing MWH marking locations of chemox injection points in Colfax Ave.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 84 Photo #26  
Date: 4-07-06 Time: 0915  
Photographer: Larry Campbell  
I Description: PhotofacingsouthwestshowingISOTEC chemox mixing and pumping station set up in OFCA west of Colfax Ave.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #27  
 Date: 4-07-06 Time: 1122  
 Photographer: Larry Campbell  
 Description: Photo facing east showing PSA  
 backfilling injection point hole with sand.



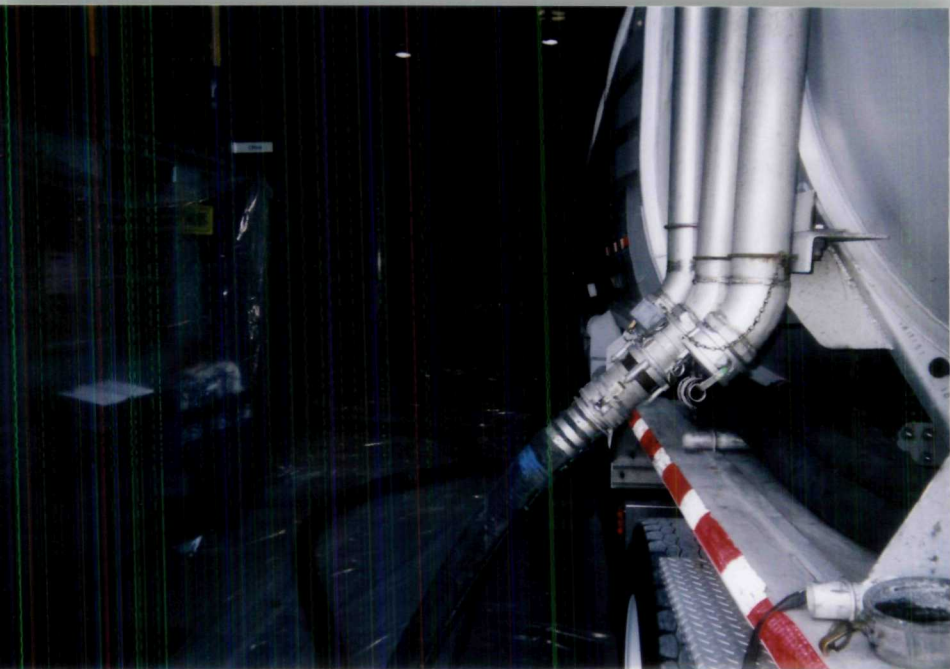
Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 84 Photo #28  
 Date: 4-07-06 Time: 1127  
 Photographer: Larry Campbell  
 Description: Photo facing east showing ISOTEC  
 connecting chemox manifold to injection  
 rod.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #1  
Date: 4-11-06 Time: 0850  
Photographer: Larry Campbell  
Description: Photo facing north showing sandy locations at chemox injection points on west shoulder of Colfax Ave.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #2  
Date: 4-11-06 Time: 0851  
Photographer: Larry Campbell  
Description: Photo facing west into OFCA at location where ISOTEC chemox staging and mixing area had been located.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #3  
 Date: 4-11-06 Time: 0902  
 Photographer: Larry Campbell  
 Description: Photo facing south into GWTP showing granular activated carbon (GAC) tanker truck and hoses. Note plastic sheeting to protect GWTP walls from carbon dust.



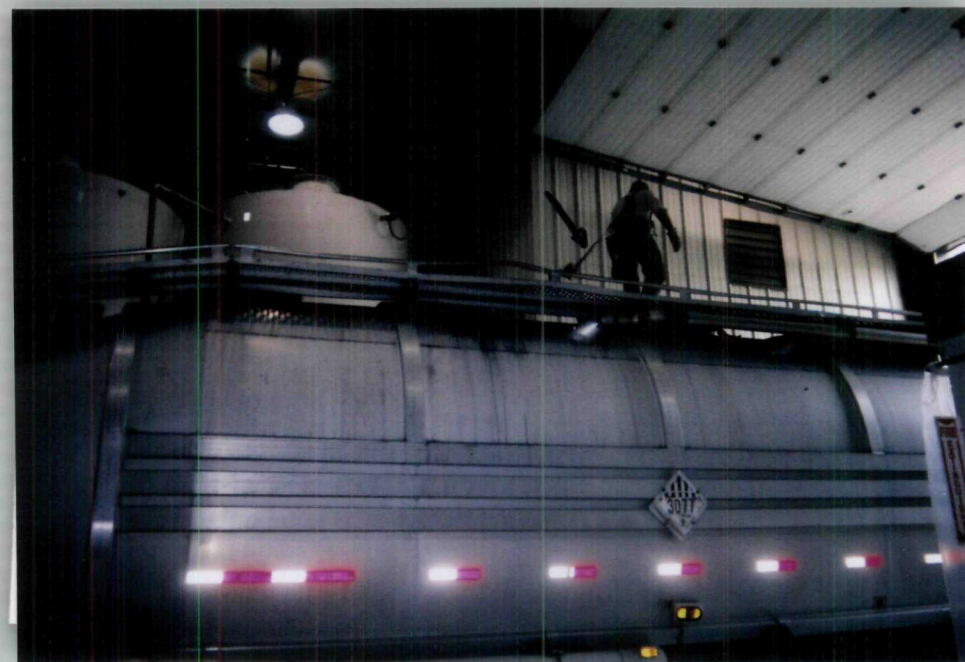
Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #4  
 Date: 4-11-06 Time: 0903  
 Photographer: Larry Campbell  
 Description: Photo facing southwest looking into GAC tank ME34 (south tank) showing some remaining spent carbon in bottom of tank after most had been removed.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #5  
Date: 4-11-06 Time: 0905  
Photographer: Larry Campbell  
Description: Photo looking inside GAC tank ME34  
showing corrosion on wall of tank.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #6  
Date: 4-11-06 Time: 0917  
Photographer: Larry Campbell  
Description: Photo looking into GAC tank ME34 after  
almost all GAC had been removed.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]

Roll: 85 Photo #7

Date: 4-11-06 Time: 0930

Photographer: Larry Campbell

Description: Photo facing south showing Lee using high pressure washer to remove solid GAC from walls of tank ME34.

Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #8

Date: 4-11-06 Time: 0932

Photographer: Larry Campbell

Description: Photo facing up showing Weavertown Trucking technician closing hatches on truck. Note he is tied-off with fall protection.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #9  
Date: 4-11-06 Time: 0948  
Photographer: Larry Campbell  
Description: Photo (panorama 1 of 2) looking down  
inside GAC tank ME34 after all GAC has  
been removed.

Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #10  
Date: 4-11-06 Time: 0948  
Photographer: Larry Campbell  
Description: Photo (panorama 2 of 2) looking down  
inside GAC tank ME34 after all GAC has  
been removed.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #11  
 Date: 4-11-06 Time: 0951

Photographer: Larry Campbell

Description: Photo facing east showing Weavertown technician connecting evacuation hose to GAC tank ME33 (north tank). Black on plastic is leaked carbon.



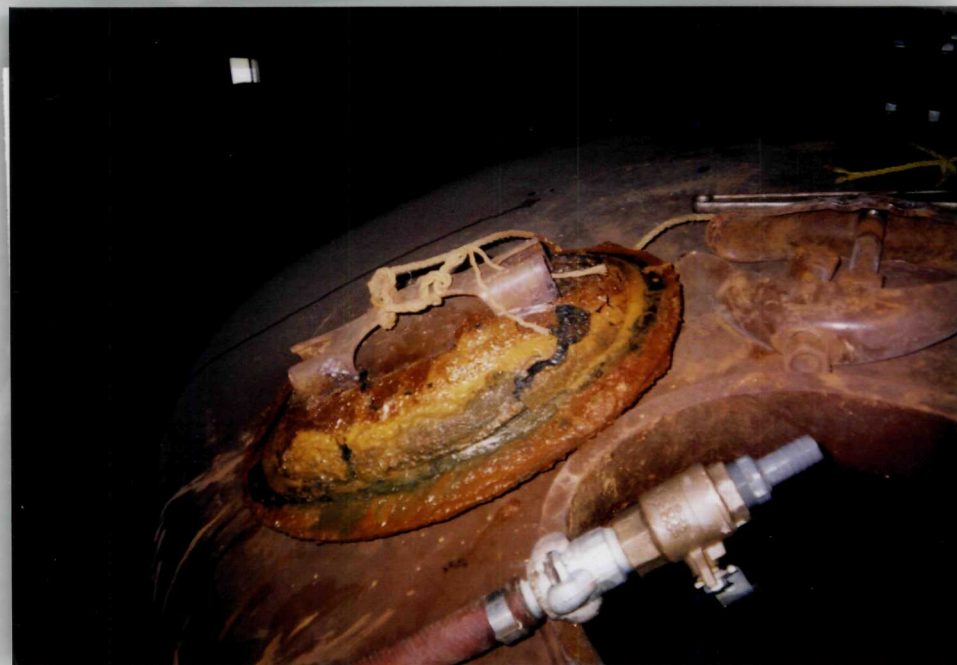
Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #12  
 Date: 4-11-06 Time: 1025

Photographer: Larry Campbell

Description: Photo facing south showing removal of spent GAC from tank ME33.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #13  
Date: 4-11-06 Time: 1110  
Photographer: Larry Campbell  
Description: Photo facing down into GAC tank ME33  
showing water above GAC which is  
about 3/4th full in tank



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #14  
Date: 4-11-06 Time: 1111  
Photographer: Larry Campbell  
Description: Photo facing south showing seal plate for  
access to top of GAC tank ME33. Note  
corrosion and attached carbon.



Site: American Chemical Service, Inc.

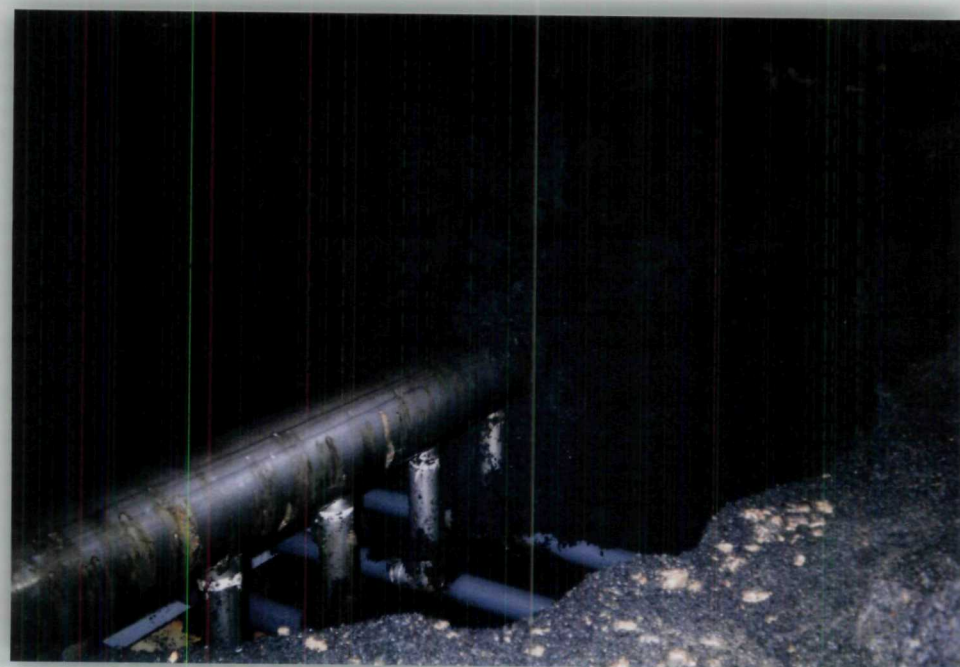
Proj. #: 44728 AES [46526 RAC]

Roll: 85 Photo #15

Date: 4-11-06 Time: 1158

Photographer: Larry Campbell

Description: Photo facing down showing carbon-crusted hatch for GAC tank ME34.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]

Roll: 85 Photo #16

Date: 4-11-06 Time: 1248

Photographer: Larry Campbell

Description: Photo facing into GAC tank ME33 after most of GAS has been removed.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #17  
Date: 4-11-06 Time: 1327  
Photographer: Larry Campbell  
Description: Photo facing south showing Lee adding water to ME33 to dislodge remaining GAC.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #18  
Date: 4-12-06 Time: 0837  
Photographer: Larry Campbell  
Description: Photo facing northwest showing valving arrangement to backwash GAC tanks, after it was removed from GWTP.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #19  
 Date: 4-12-06 Time: 0840  
 Photographer: Larry Campbell  
 Description: Photo facing southeast showing GAC  
 tanks to be removed (and prior location  
 of valving unit).

Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #20  
 Date: 4-12-06 Time: 0842  
 Photographer: Larry Campbell  
 Description: Photo facing into GAC tank ME33 after  
 all GAC had been removed.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]

Roll: 85 Photo #21  
Date: 4-12-06 Time: 0844

Photographer: Larry Campbell

Description: Photo facing south showing crane being  
connected to lifting cable to remove tank  
ME33. Note Tim is tied-off with fall  
protection

Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]

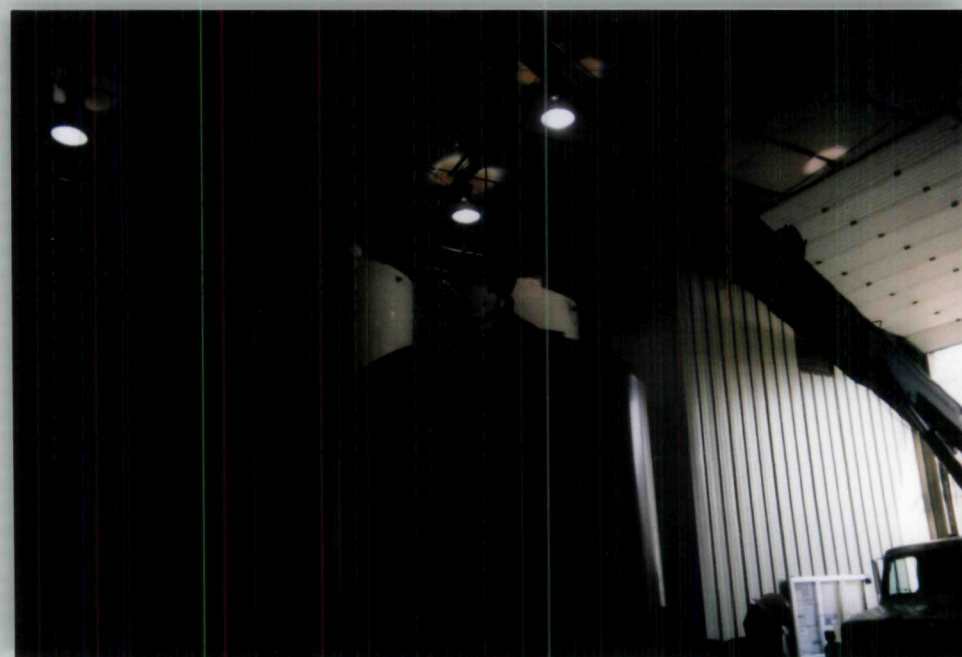
Roll: 85 Photo #22  
Date: 4-12-06 Time: 0847

Photographer: Larry Campbell

Description: Photo facing southeast showing tank  
ME33 lifted off the floor.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #23  
 Date: 4-12-06 Time: 0850  
 Photographer: Larry Campbell  
 Description: Photo facing southeast at rear truck tires  
 on crane, showing front outrigger in  
 place.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #24  
 Date: 4-12-06 Time: 0903  
 Photographer: Larry Campbell  
 Description: Photo facing northwest showing tank  
 reconnected with chain (rather than cable  
 sling) because of height limitations in  
 building.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #25  
Date: 4-12-06 Time: 0923  
Photographer: Larry Campbell  
Description: Photo facing north showing crane  
backing out of GWTP with ME33.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 85 Photo #26  
Date: 4-12-06 Time: 0925  
Photographer: Larry Campbell  
Description: Photo facing northwest showing tank  
ME33 being tipped onto its side.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 85 Photo #27  
 Date: 4-12-06 Time: 0930  
 Photographer: Larry Campbell  
 Description: Photo facing southwest showing ME33  
 located on its side.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #1  
 Date: 4-12-06 Time: 1013  
 Photographer: Larry Campbell  
 Description: Photo facing southeast showing ME34  
 being moved out of its prior location.  
 Note the short hookup because of  
 overhead heater.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 86 Photo #2  
Date: 4-12-06 Time: 1015  
Photographer: Larry Campbell  
Description: Photo facing north showing tank ME34  
being moved out of GWTP.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 86 Photo #3  
Date: 4-12-06 Time: 1016  
Photographer: Larry Campbell  
Description: Photo facing north showing minimal  
boom clearance as ME34 is moved  
outside of GWTP.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #4  
 Date: 4-12-06 Time: 1029  
 Photographer: Larry Campbell  
 Description: Photo facing south showing ME33  
 being placed on low-boy truck.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #5  
 Date: 4-12-06 Time: 1044  
 Photographer: Larry Campbell  
 Description: Photo facing west showing ME34 being  
 tipped onto its side.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 86 Photo #6  
Date: 4-12-06 Time: 1058  
Photographer: Larry Campbell  
Description: Photo facing west showing tank ME34  
being loaded onto low-boy truck.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 86 Photo #7  
Date: 4-12-06 Time: 1104  
Photographer: Larry Campbell  
Description: Photo facing northwest showing long-  
reach pickup of piping valve unit.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #8  
 Date: 4-12-06 Time: 1106  
 Photographer: Larry Campbell  
 Description: Photo facing west showing placement  
 of piping valve unit on truck.



Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #9  
 Date: 4-12-06 Time: 1108  
 Photographer: Larry Campbell  
 Description: Photo facing north showing new 3000  
 pound GAC tanks on delivery truck.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 86 Photo #10  
Date: 4-12-06 Time: 1117  
Photographer: Larry Campbell  
Description: Photo facing northeast showing Lee removing GAC tank from delivery truck using fork lift.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 86 Photo #11  
Date: 4-12-06 Time: 1122  
Photographer: Larry Campbell  
Description: Photo facing south showing truck loaded with old GAC tanks.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #12  
 Date: 4-12-06 Time: 1124  
 Photographer: Larry Campbell  
 Description: Photo facing west showing new GAC  
 tank being moved into GWTP.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #13  
 Date: 4-12-06 Time: 1127  
 Photographer: Larry Campbell  
 Description: Photo facing north showing new GAC  
 tank being moved into GWTP



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #14  
 Date: 4-12-06 Time: 1134  
 Photographer: Larry Campbell  
 Description: Photo facing south showing second new  
 GAC tank being moved into position.

Photo did not develop.

Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 86 Photo #15  
 Date: 4-12-06 Time: 1244  
 Photographer: Larry Campbell  
 Description: Photo facing south showing new GAC  
 tanks in place in GWTP



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]

Roll: 86 Photo #16

Date: 4-12-06 Time: 1245

Photographer: Larry Campbell

Description: Photo facing southwest showing Lee measuring for new hoses to connect the new GAC tanks.